

SONY

TRINITRON® COLOUR MONITOR BASIC SCHEMATIC DIAGRAM

KX-27PS1

Chassis No.: SCC-405B-A

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE
TECHNICIAN.
KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.


Sony Corporation

4-491-645-01

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Printed in Japan







SAFETY-RELATED COMPONENT WARNING!!

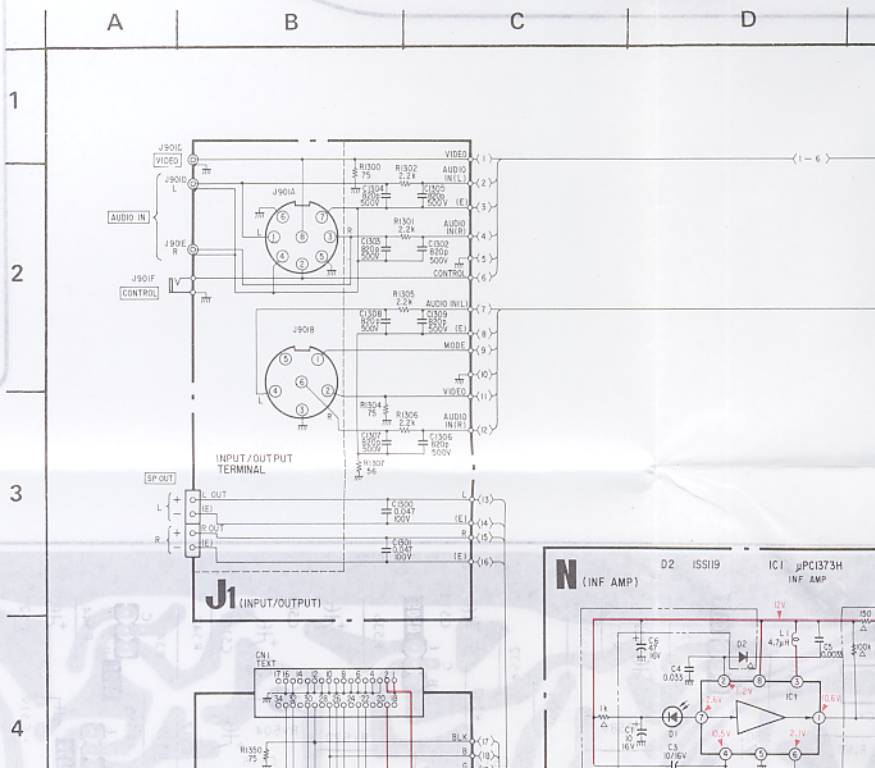
COMPONENTS IDENTIFIED BY SHADING AND  MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THE SERVICE MANUAL PUBLISHED BY SONY. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

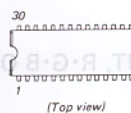
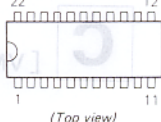
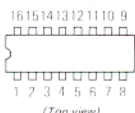
SCHEMATIC DIAGRAM

Note:

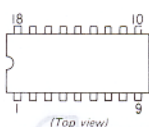
- All capacitors are in μF unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μF
- All resistors are in ohms. $\frac{1}{4}\text{W}$ unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
- Δ : internal component.
-  : panel designation.
-  : adjustment for repair.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltage are in V.
No Mark : PAL or COMMON
(00) : SECAM
< > : NTSC 4.43
[] : NTSC 3.58
- Readings are taken with a 10 M Ω digital multimeter.



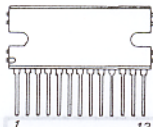
M50120P

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μPC7812HTA7630P
TC4052BP
TDA1082

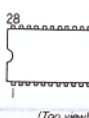
TDA2595



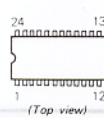
TDA2653A



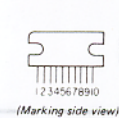
TDA3562A



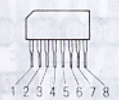
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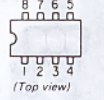
μPC1188H



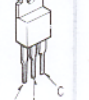
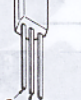
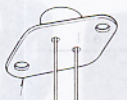
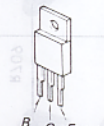
μPC1373H



μPC4558C



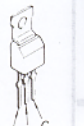
μPC78L12

2SA1015
2SA733
2SC1815
2SC9452SA1048
2SC2458
2SC26032SA1175
2SC27852SA773
2SB740
2SC1475
2SC1811
2SD7892SB734
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2SC2238
2SC2238B
2SD1138-02-C
2SD795A

2SC1963



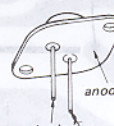
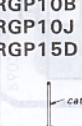
2SC2278



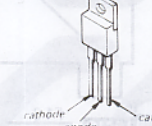
BF423



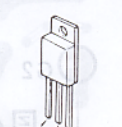
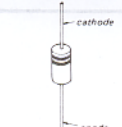
SG264A

10E2
ERB12-02RK
ERB12-04RK
GP08B
GP08D
RGP10B
RGP10J
RGP15D1N4148H
1S1555
1S2076
1S2473
1S5133
ERD28-08
RD12E-B3
RD24E-B4
RD3.9E-B1
RD6.2E-L3
RD6.8E-B1Z
SIB01-02T5
US10351SS119
1SS120
1SS148

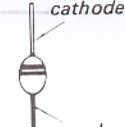
CTU12R



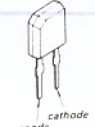
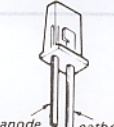
EM1Z

CTU12S
CTU24S
ESAC82-004ERB26-20
V19B
V19E
V30NERC24-06S
SIB01-02

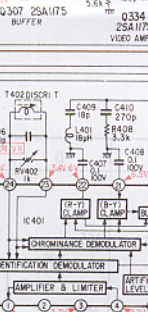
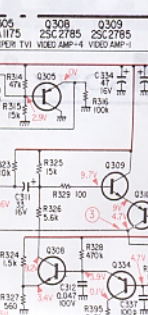
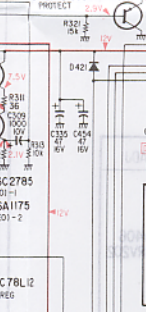
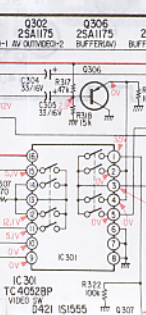
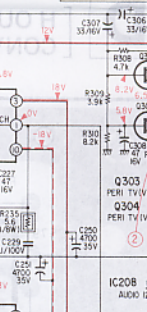
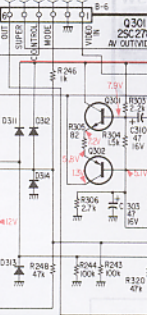
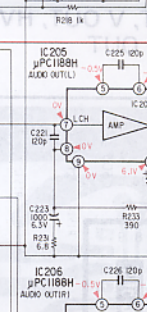
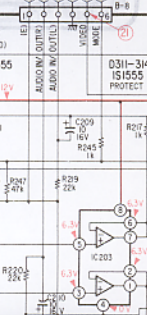
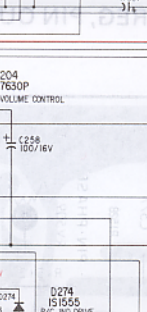
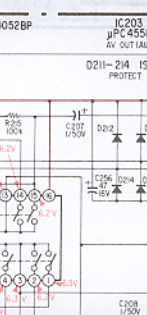
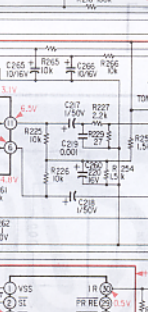
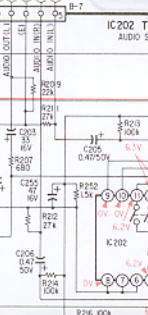
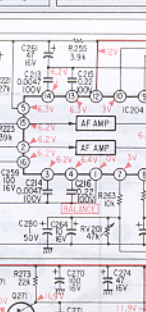
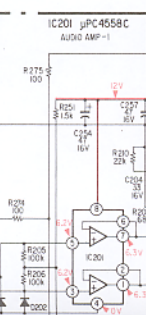
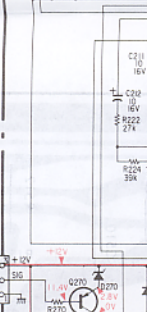
ERC26-15S

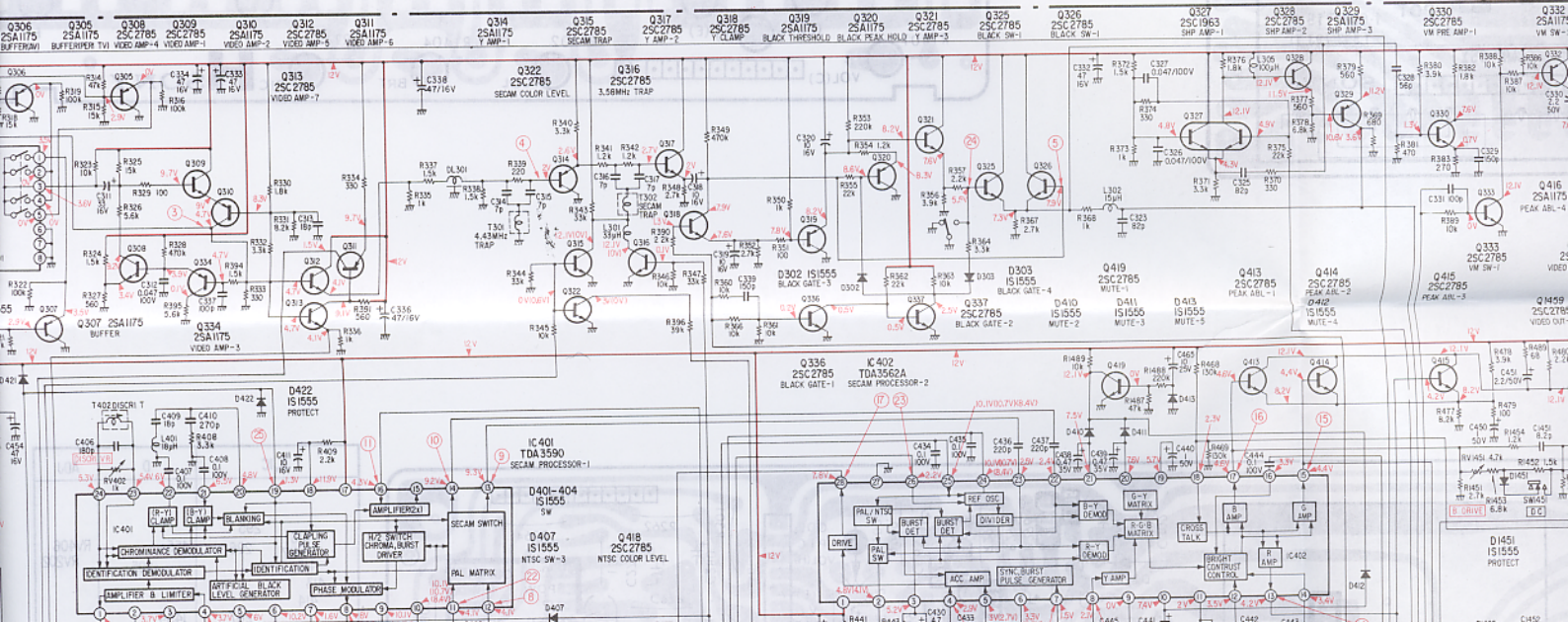
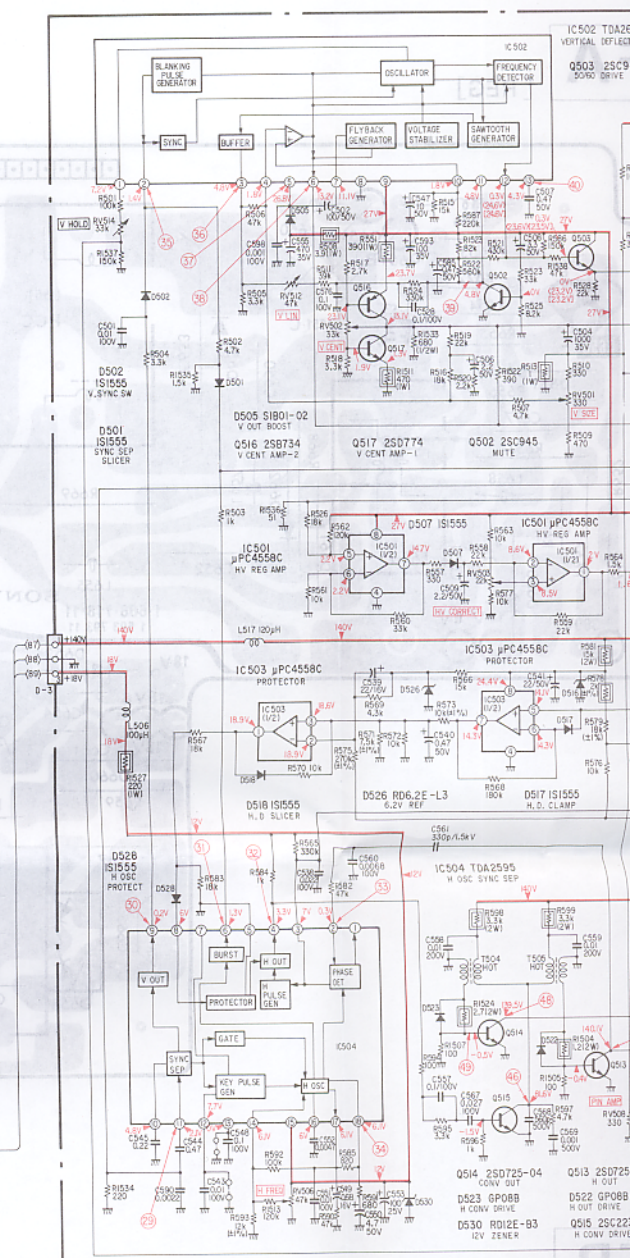
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U05G

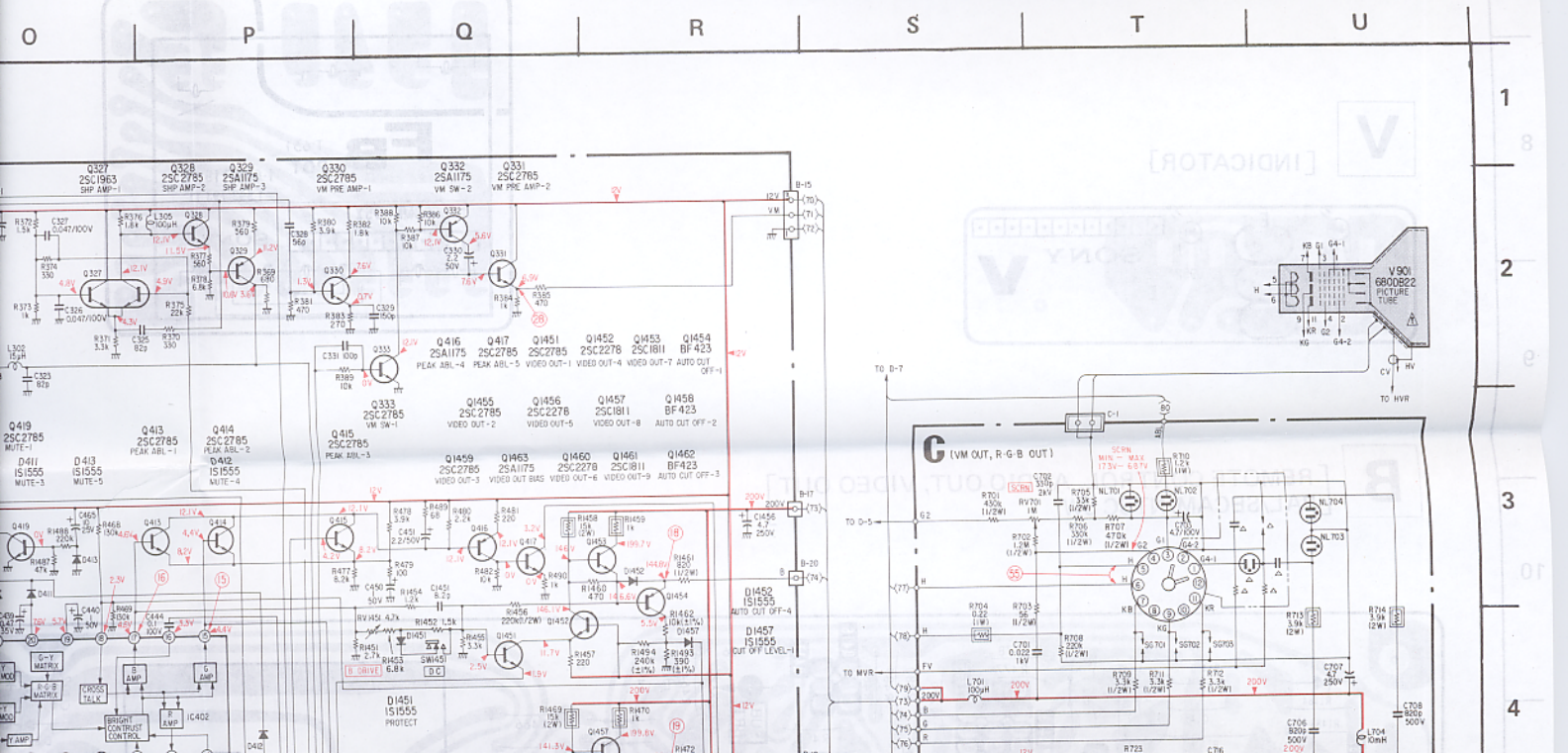
PH302B

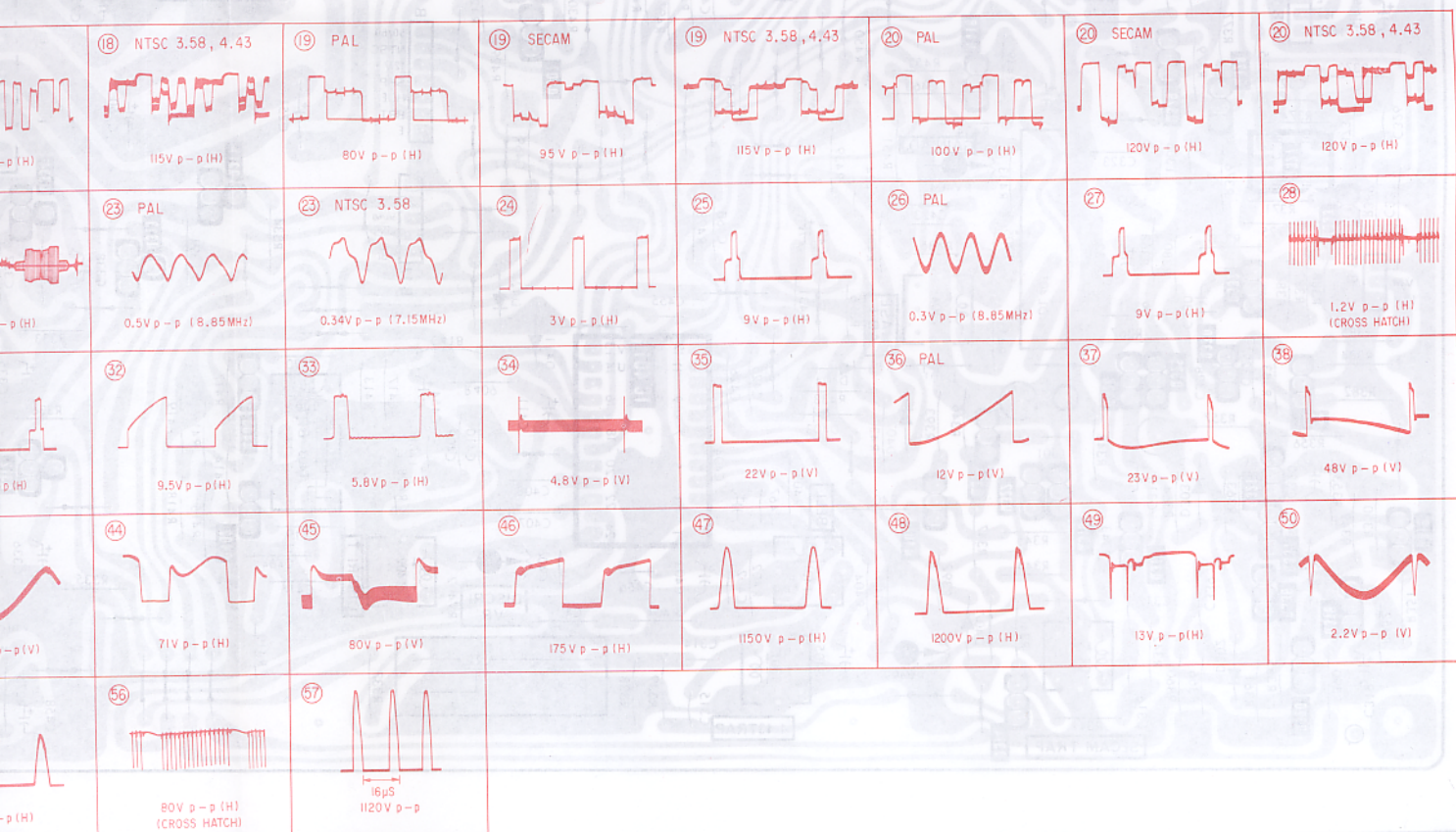
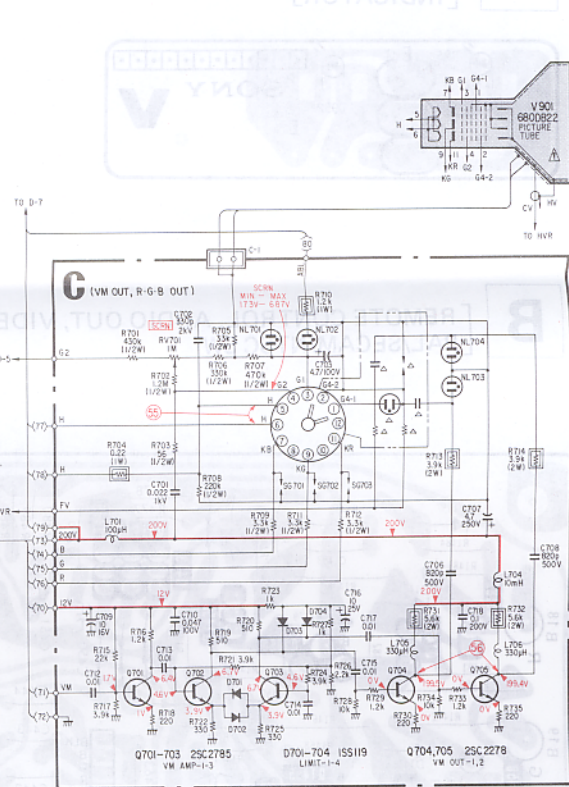
SG232D
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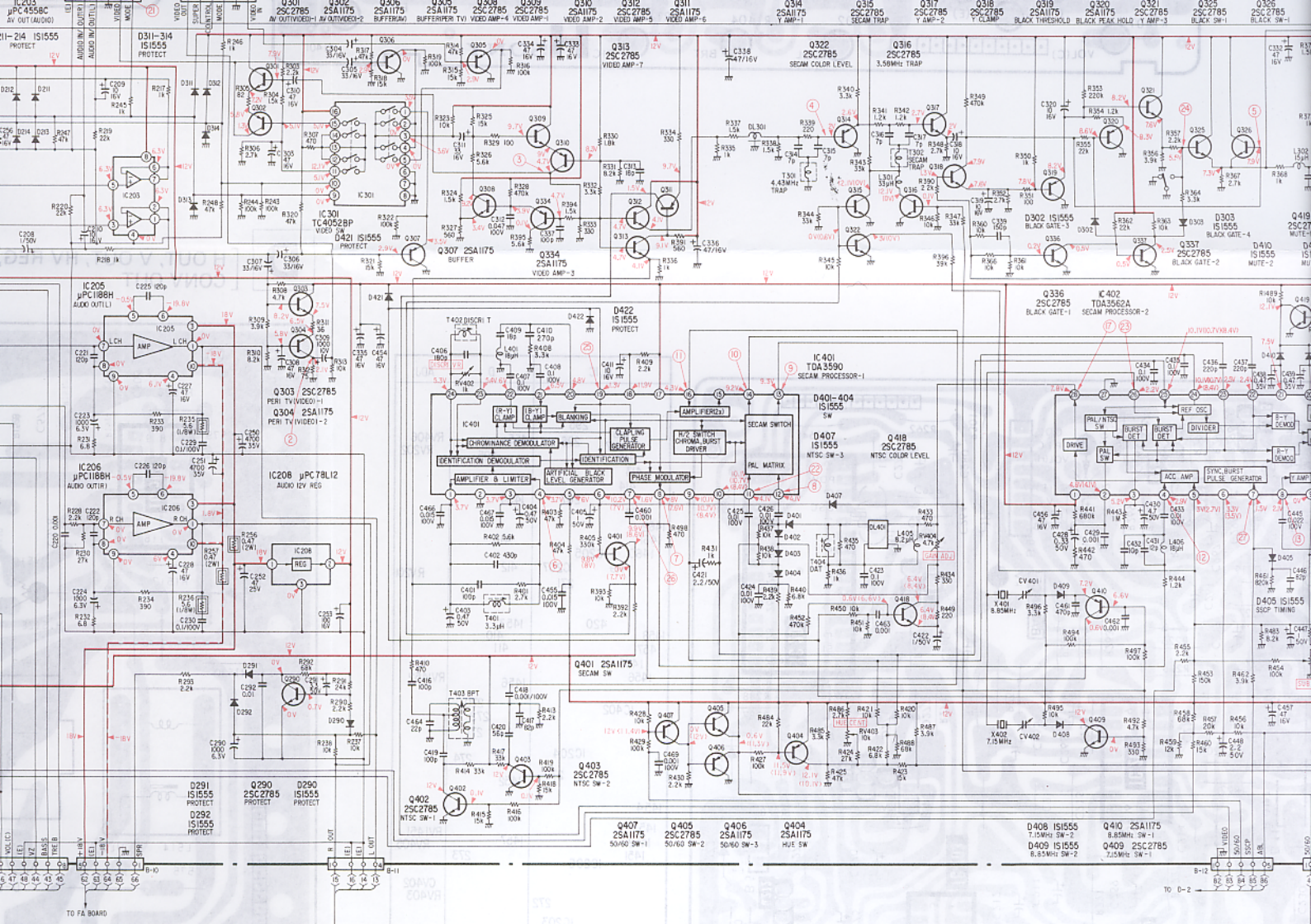
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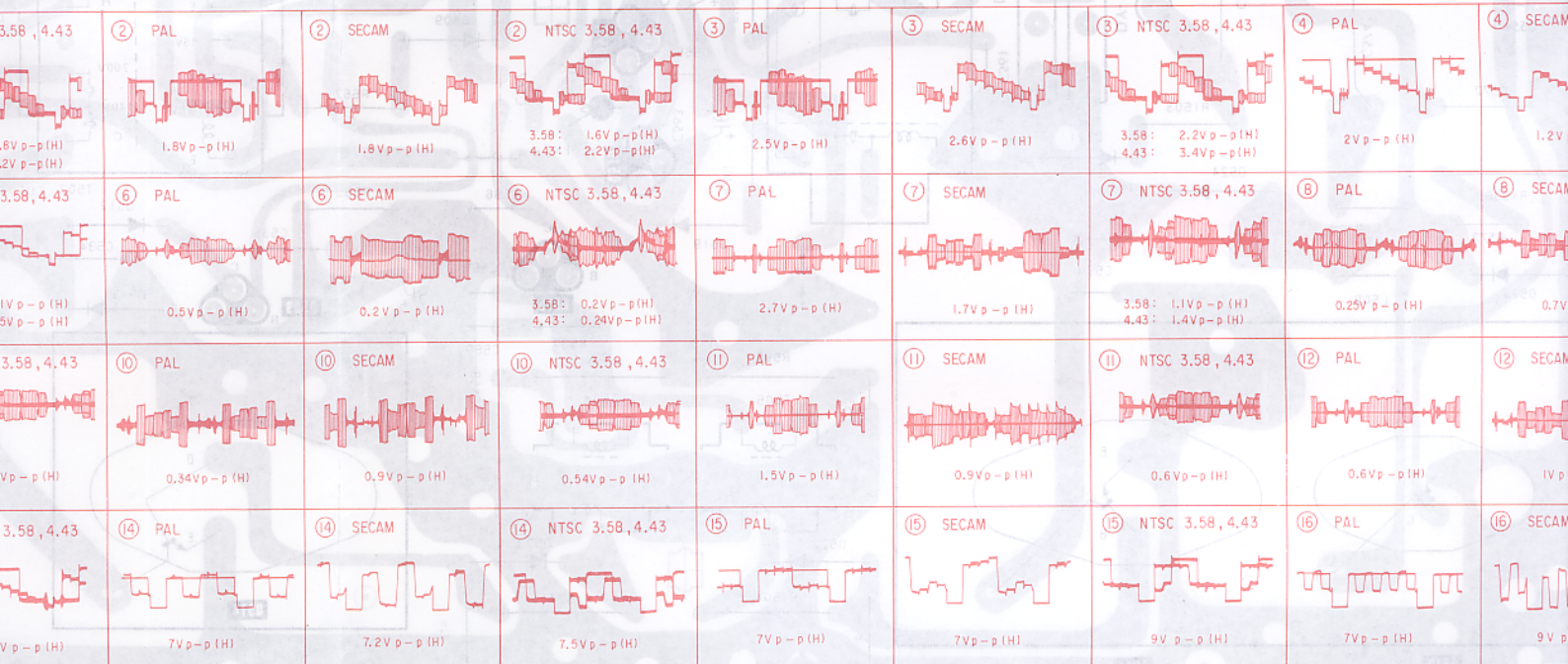
B (REMOTE CONTROL,
AUDIO OUT-VIDEO OUT,
PAL/SECAM/NTSC SW)
















p : μF

- All resistors are in ohms. $\frac{1}{2}\text{W}$ unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
- \triangle : internal component.
-  : panel designation.

•  : adjustment for repair.

•  : B+ bus.

•  : B- bus.

• Voltages are dc with respect to ground unless otherwise noted.

• All voltage are in V.

No Mark : PAL or COMMON

() : SECAM

< > : NTSC 4.43

[] : NTSC 3.58

• Readings are taken with a 10-M Ω digital multimeter.

• Readings are taken with a color-bar signal input.

2

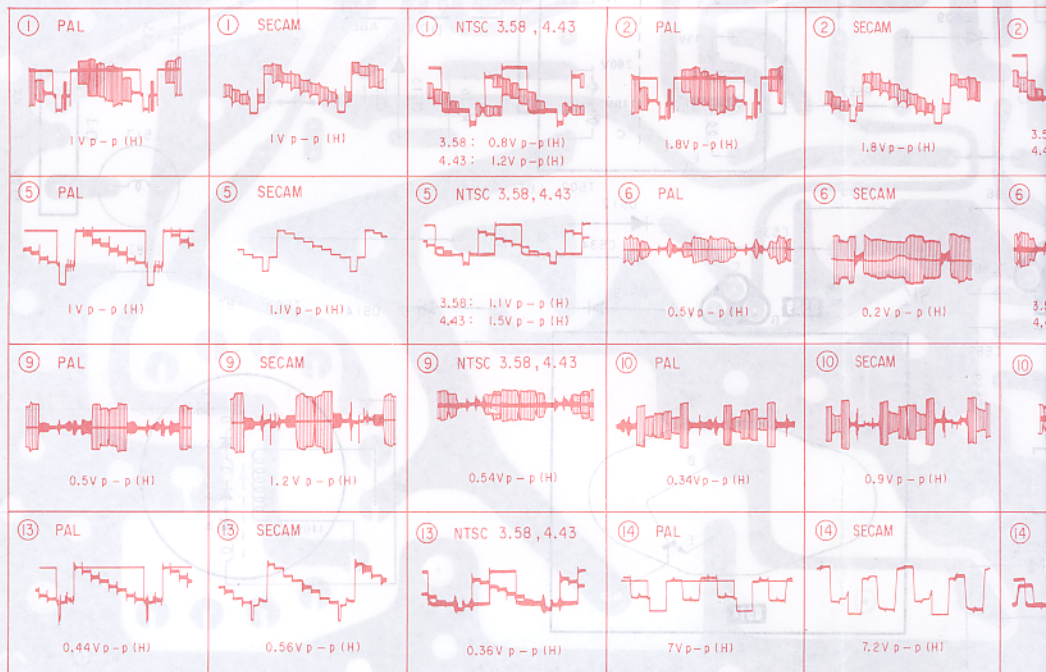
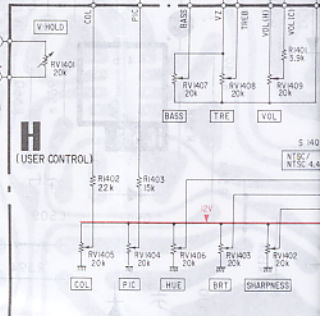
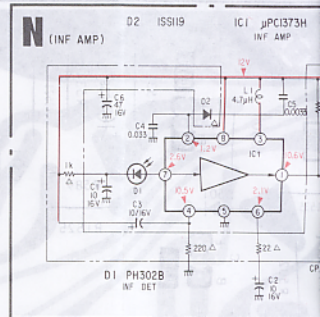
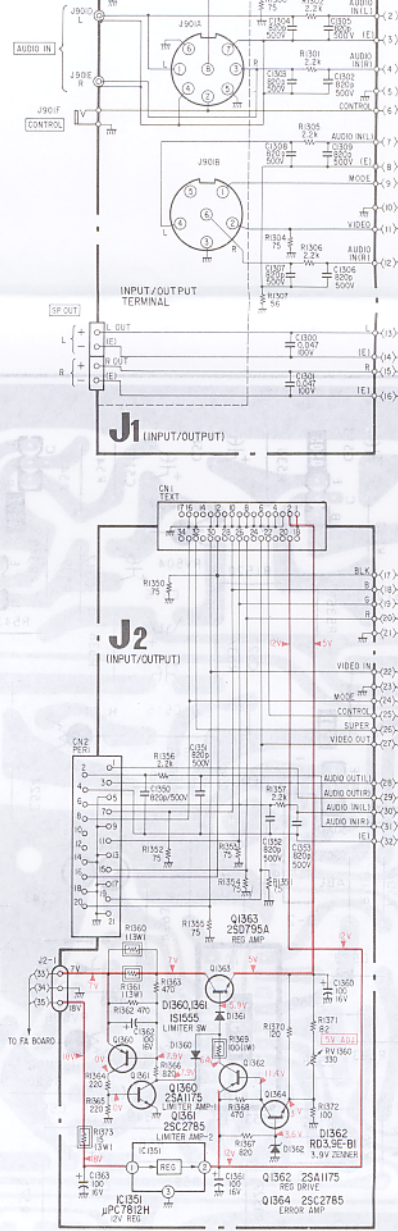
3

4

5

6

7



FA

J2

FB

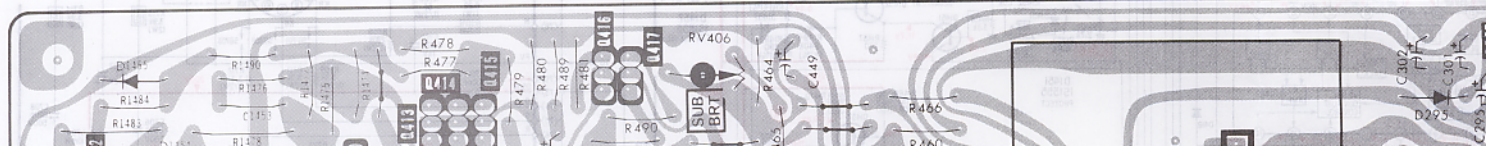
The diagram shows the internal layout of a Sony GCMK-65X television set. Key components and their connections are labeled:

- FB**: Flyback transformer, a large component on the left.
- T 651**: A tube, located below the FB.
- POT**: Potentiometer, located below the T 651.
- SONY**: The manufacturer's logo, located on the right side.
- GCMK-65X**: The model number, located at the bottom left.
- Connections**: Various wires and terminals are shown, including a large terminal block at the bottom with multiple pins.

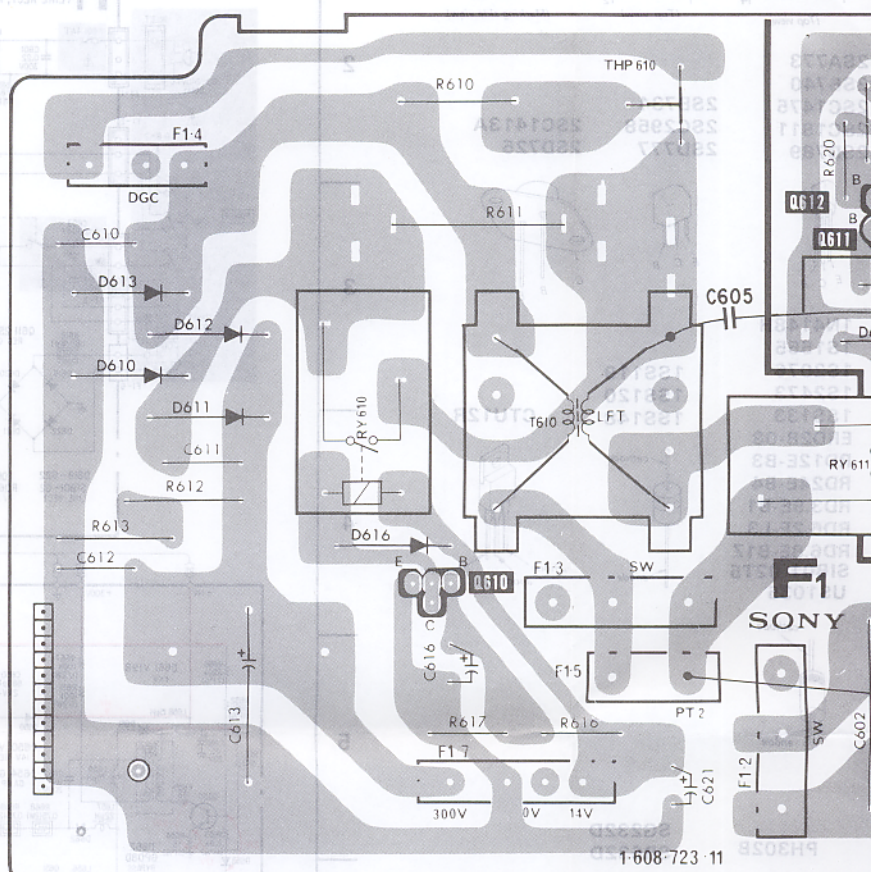
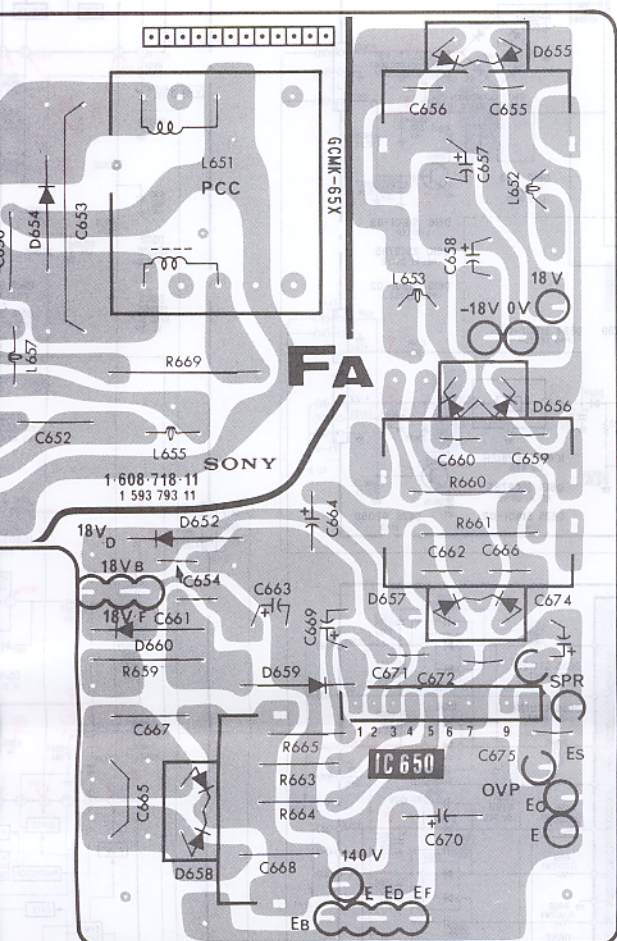
V

A close-up of a Sony VHS tape. The label is white with black text. It features the Sony logo (a circle with three horizontal lines) on the left, followed by the word "SONY" in a bold, sans-serif font, and a large "V" on the right. Below the Sony logo, the word "E" is printed. The tape is shown at an angle, with the top edge visible.

B

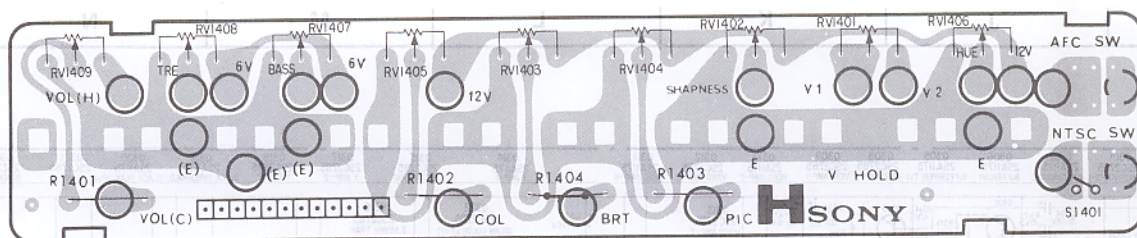
[REMOTE CONTROL, AUDIO OUT, VIDEO OUT]
PAL/SECAM/NTSC SW

[LINE RECT, REG-DRIVE]



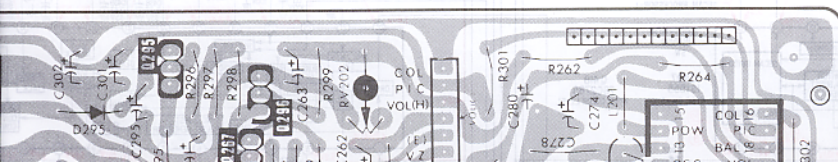
H

[USER CONTROL]

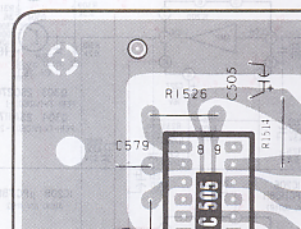


D

[H OUT, V OUT,
CONV OUT

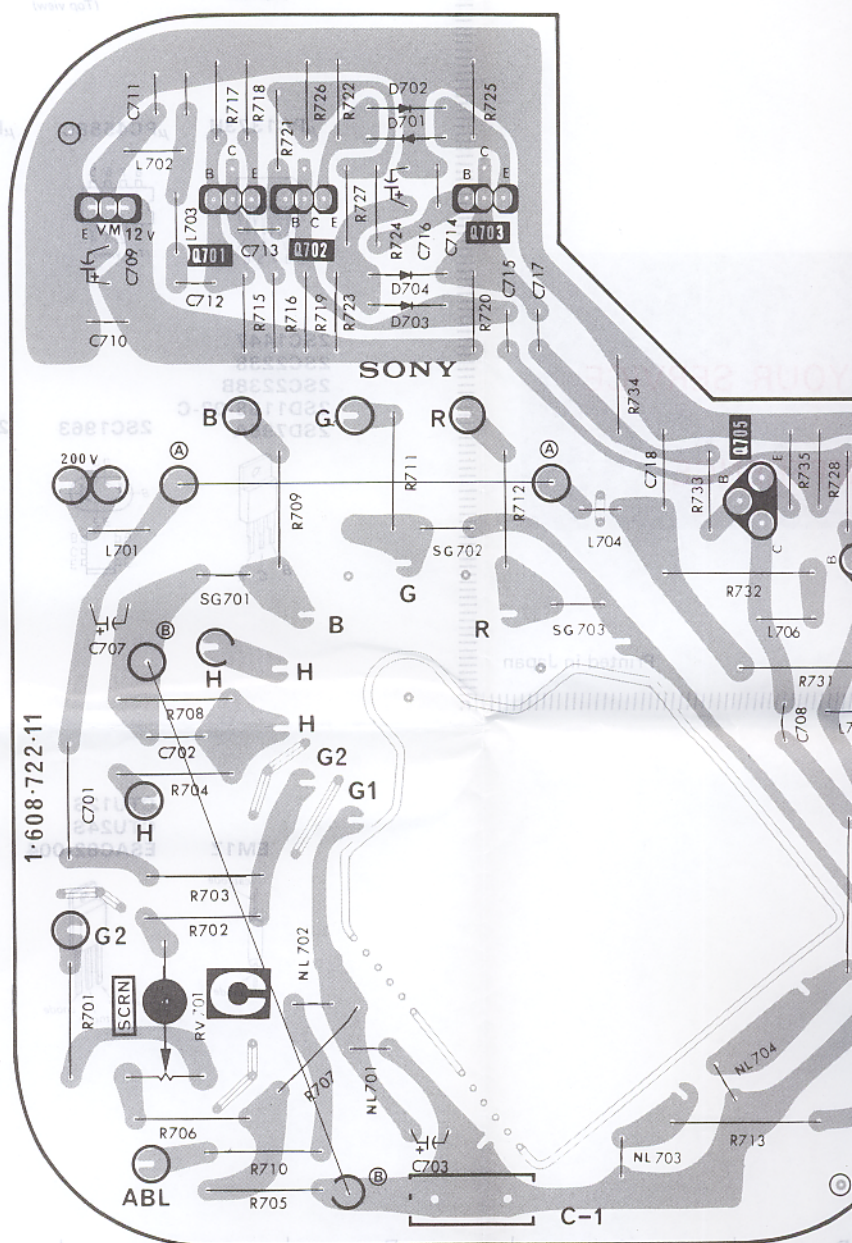


Q, IC	D	ADJ
416 295		
417 296	1455	RV406 RV202
415	295	
413		
414		
267	1454	

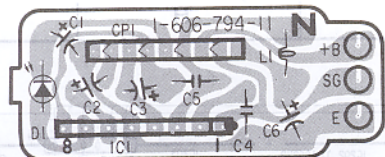


I

[VM OUT, R·G·B OUT]

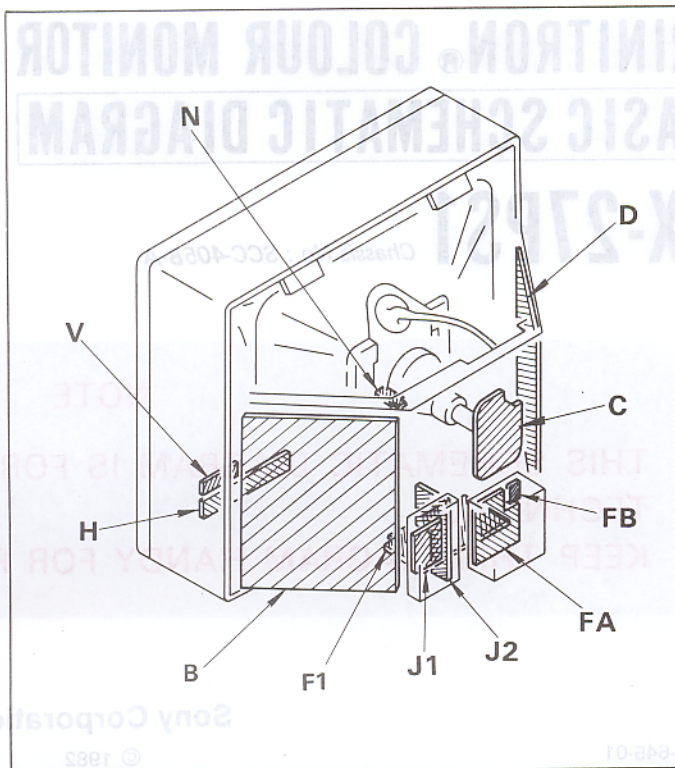
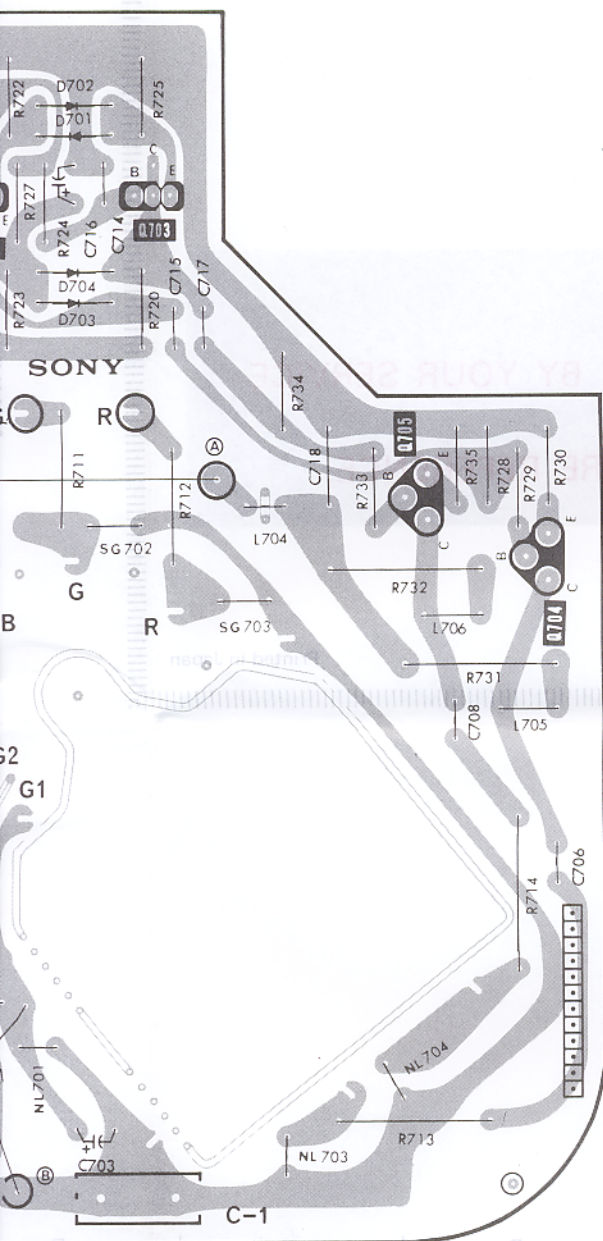


[INF AMP]

OUT, V OUT, HV REG, PIN OUT
CONV OUT

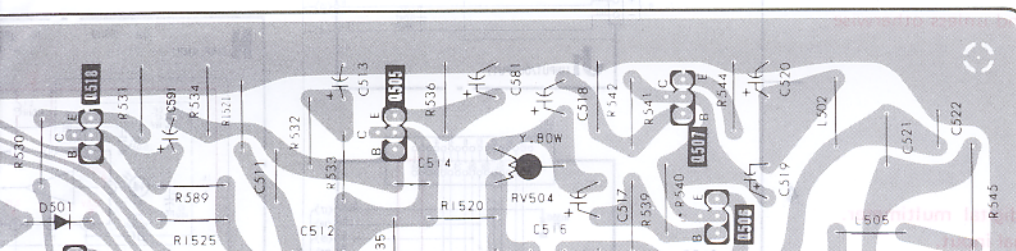
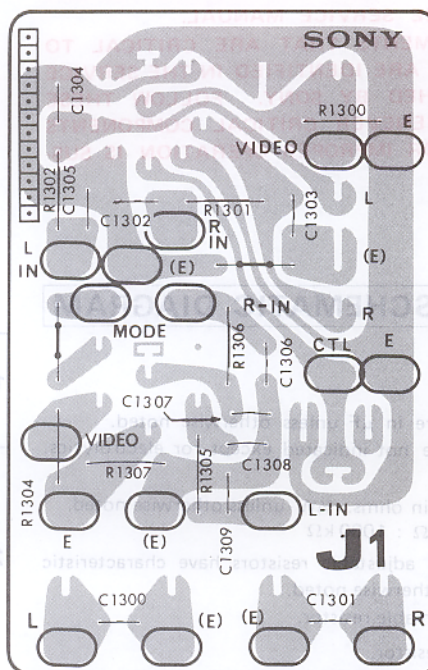
CIRCUIT BOARDS LOCATION

OUT]



J1

[IN PUT/OUT PUT]



Q, IC	D	ADJ
507		
518		
505		
IC505	506	501
		RV509
		RV504

1

2

3

4

5

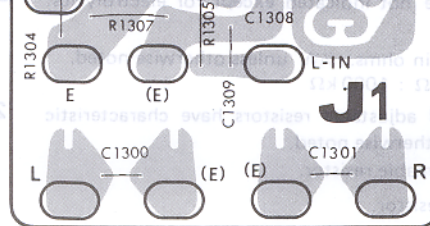
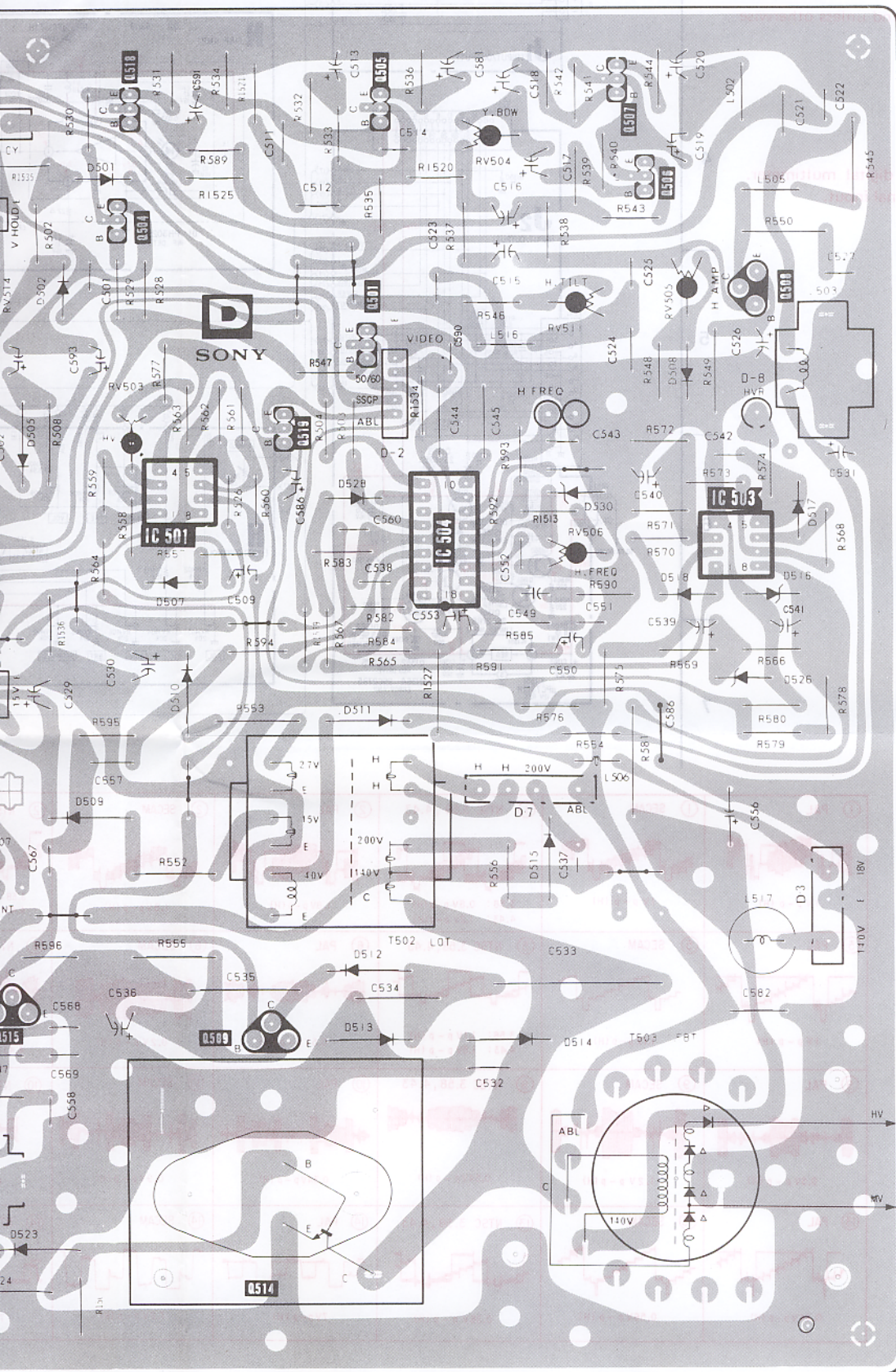
6

7

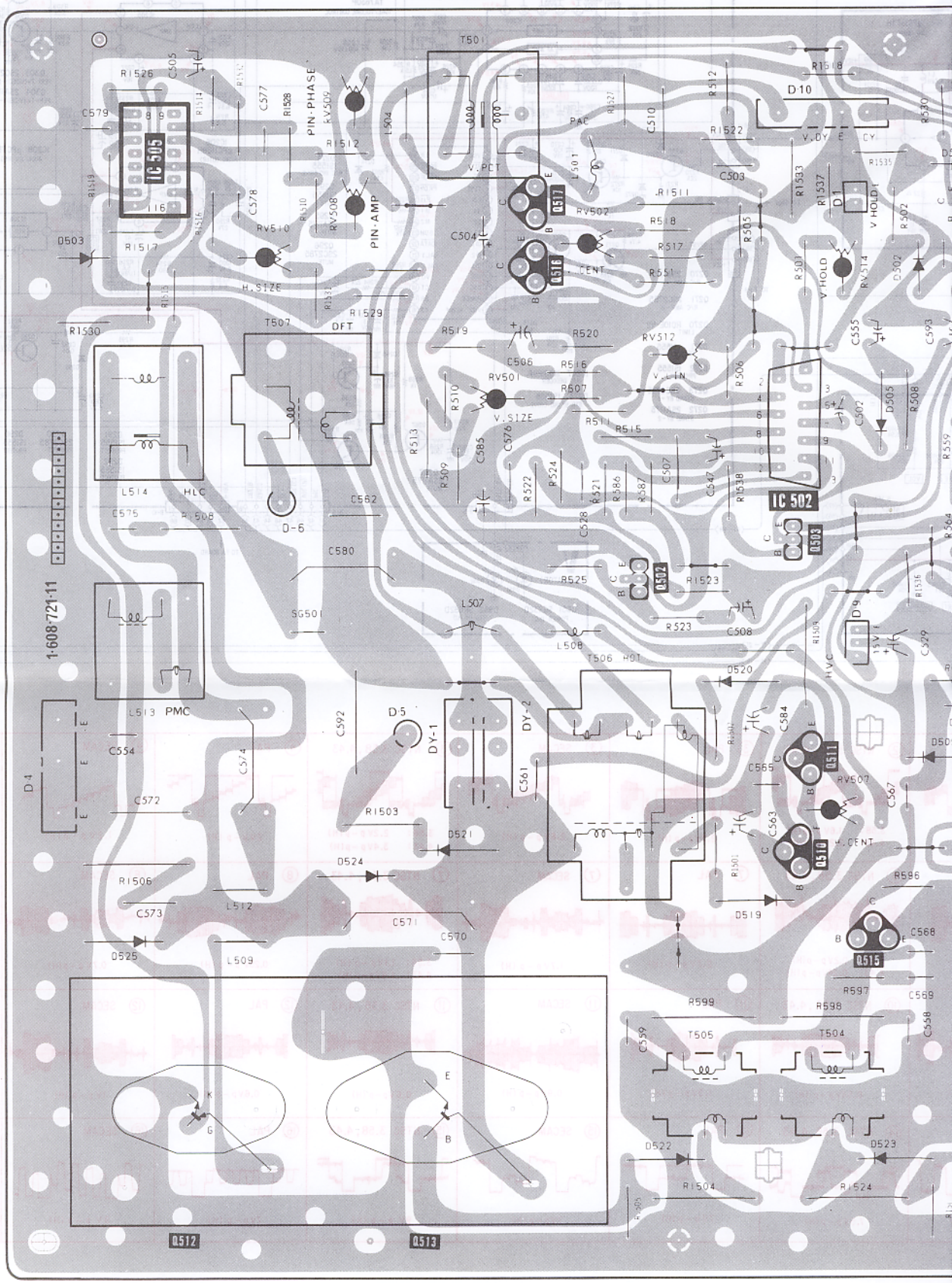
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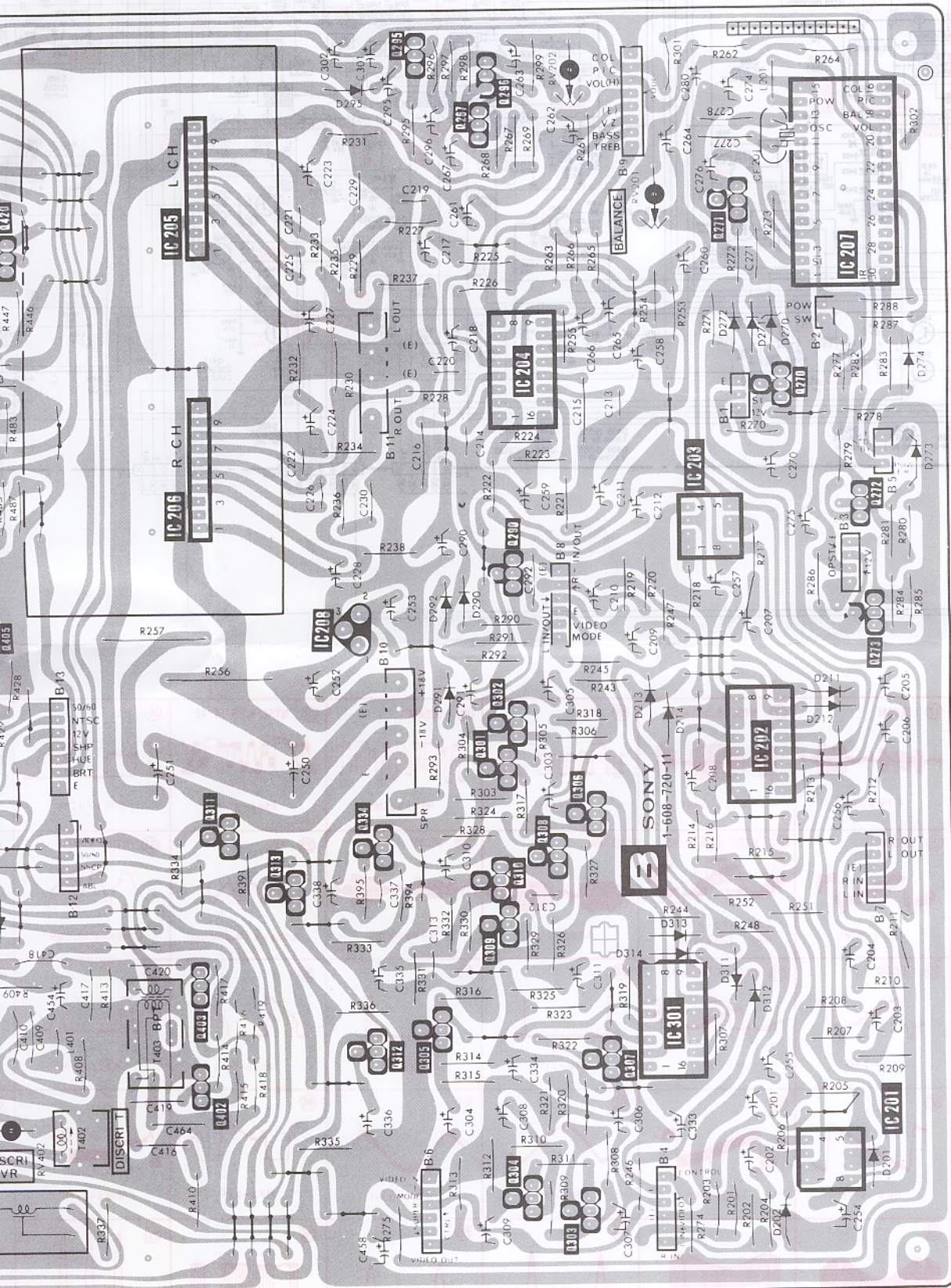
9

10

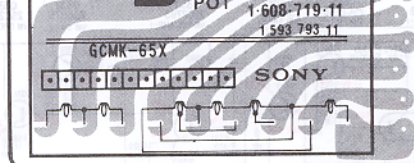
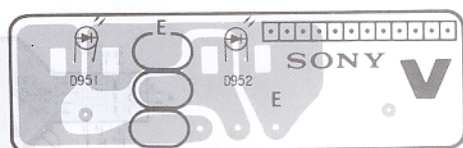


Q, IC	D	ADJ
507		
518		
505		RV509
IC505	506	RV504
517	504	RV508
516	508	RV502
	503	RV510
	502	RV505
		RV514
		RV511
	508	RV512
519		RV501
IC502	505	RV503
IC501	530	
	528	
IC504		
IC503		RV506
503	507	
	516	
502	518	
	510	
	526	
	511	
	520	
511	509	
	515	RV507
510	521	
	524	
515	519	
	525	
509	513	
	514	
512	514	
513		
	522	
	523	
Q, IC	D	ADJ



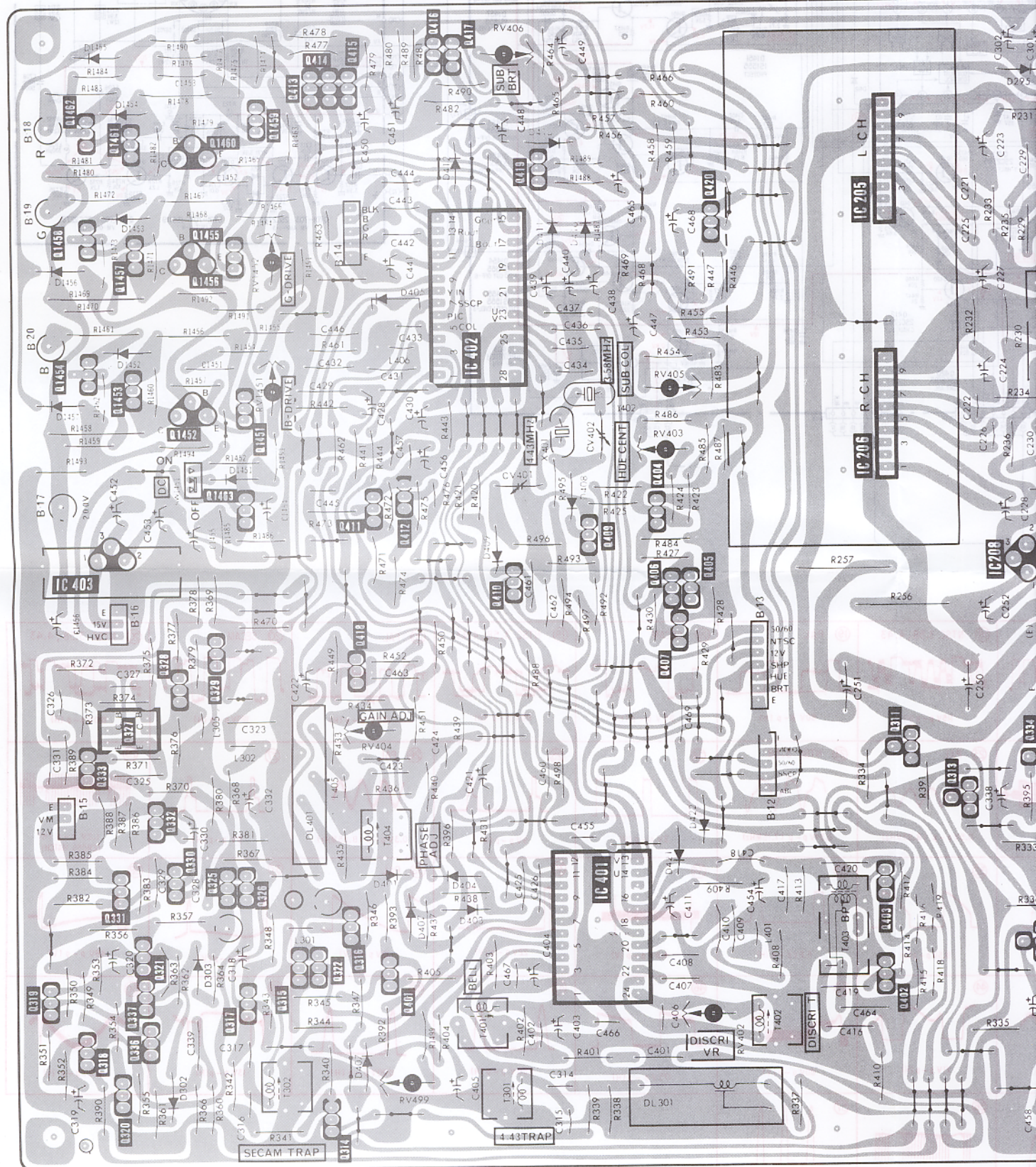


Q, IC	D	ADJ
295	1455	RV406
416	295	RV202
417		
415		
413		
414	267	1454
1459		
1462		
1461	413	
1460	412	RV201
419		
420	1453	
1458	410	
1457	411	
1455		
1456	1456	RV1452
IC402	270	
	272	
	405	
IC204	274	
270	1452	
1454		
1453		
1452		
1451	1457	RV1451
IC206	273	RV405
272		
IC203	1451	
412	408	
1463		
411		
409	290	
IC208	292	
410	409	
406		
405		
407		
329	302	
418	IC202	
328	301	
327	306	RV404
333	311	
	334	
	308	
	310	
	313	
332	309	
	422	
325	313	
330	421	
331	314	
326	401	
IC401	404,311	
316	403	
312	312	
315	307	
401		
337	303	
319		
317		
336		
318	IC201	
	407	
320	304	
	303	
314	302	
	202	RV499
Q, IC	D	ADJ



B

[REMOTE CONTROL, AUDIO OUT, VIDEO OUT]
PAL/SECAM/NTSC SW



A

B

C

D

E

F

G